

NA2XS(FL)2Y 18/30 (36)kV Cable



APPLICATION

Medium voltage power cables for distribution networks and generation units, suitable for external installation including in buried cable ducts. UV Resistant...

CHARACTERISTICS

Voltage Rating U_0/U (Um)

18/30 (36)kV

Test Voltage

63kV AC 50Hz (5 mins)

Temperature Rating

-20°C to +60°C

Permissible Conductor Operating Temperature: +90°C

Permissible Short Circuit Temperature up to 5 sec: 250°C

Minimum Bending Radius

15 x overall diameter

STANDARDS

IEC 60502-2, IEC 60228,

UV Resistant to: ISO 4892-3

Abrasion and Tear Resistant to: EN 60229-4.1

Impact rated to: AG2 EN 60364-5.51

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Class 2 Stranded Aluminium

Conductor Screen

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive material (bonded)

Longitudinal Waterblocking

Semi-conductive swellable tape

Screen

Copper Wires and copper tape

Longitudinal Waterblocking

Swellable Tapes

Radial Waterblocking

Al/PET (Aluminium/Polyester) Tape tightly bonded to sheath

Outer Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²		NOMINAL CONDUCTOR DIAMETER mm	NUMBER WIRES CONDUCTOR mm	NOM. THICKNESS SEMI-CON. LAYER		NOMINAL INSULATION THICKNESS mm	MINIMUM INSULATION THICKNESS mm	NOMINAL DIAMETER OVER INSULATION mm
	Conductor	Screen			INNER mm	OUTER mm			
1	50	16	8.2	7 x 2.90	0.5	0.4	8	7.1	25.2
1	70	16	9.7	19 x 2.18	0.5	0.4	8	7.1	26.7
1	95	16	11.4	19 x 2.55	0.5	0.4	8	7.1	28.4
1	120	16	12.65	19 x 2.90	0.5	0.4	8	7.1	29.7
1	150	25	14.4	19 x 3.16	0.5	0.4	8	7.1	31.4
1	185	25	15.75	37 x 2.55	0.5	0.4	8	7.1	33.2
1	240	25	18.2	37 x 2.90	0.5	0.4	8	7.1	35.7
1	300	25	20.5	61 x 2.55	0.5	0.4	8	7.1	38
1	400	35	23	61 x 2.90	0.5	0.4	8	7.1	40.5
1	500	35	26	61 x 3.20	0.5	0.4	8	7.1	43.5
1	630	35	30.2	61 x 3.65	0.5	0.4	8	7.1	47.7

NOMINAL CROSS SECTIONAL AREA mm ²	NUMBER WIRES SCREEN mm	DIAMETER TAPE SCREEN mm	NOMINAL SHEATH THICKNESS mm	MINIMUM SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM SIDEWALL PRESSURE N/cm ²	MAXIMUM PULLING TENSION N
50	44 x 0.66	1x0.1x10	2	1.4	32	1000	249	1500
70	45 x 0.66	1x0.1x11	2	1.4	34	1100	320	2100
95	46 x 0.66	1x0.1x12	2.1	1.48	36	1300	401	2850
120	47 x 0.66	1x0.1x13	2.1	1.48	37	1400	483	3600
150	71 x 0.66	1x0.1x14	2.2	1.56	39	1600	562	4500
185	72 x 0.66	1x0.1x15	2.2	1.56	41	1800	652	5550
240	73 x 0.66	1x0.1x16	2.3	1.64	43	2000	784	7200
300	74 x 0.66	1x0.1x17	2.4	1.72	46	2250	902	9000
400	60 x 0.85	1x0.1x18	2.5	1.8	49	2750	1111	12000
500	61 x 0.85	1x0.1x19	2.6	1.88	52	3250	1282	15000
630	62 x 0.85	1x0.1x20	2.7	1.96	56	3750	1462	18900

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR DC RESISTANCE AT 20°C ohms/km	CONDUCTOR DC RESISTANCE AT 75°C ohms/km	CONDUCTOR AC RESISTANCE BY MAX TEMP ohms/km	CURRENT CARRYING CAPACITY (A)		REACTANCE ohms/km	CHARGING ADMITTANCE A/km	CAPACITANCE uF/km	S.C.C CONDUCTOR OR 1SEC kA	S.C.C SCREEN 1SEC kA	CONDUCTOR LOSSES IN THE GROUND kW/km
				In Ground 20°C	in Air 30°C						
50	0.641	1.32	0.825	196	217	0.2	0.44	0.12	4.7	3.2	31.7
70	0.443	0.917	0.57	238	270	0.2	0.41	0.13	6.58	3.2	32.3
95	0.32	0.662	0.412	284	328	0.19	0.39	0.14	8.93	3.2	33.2
120	0.258	0.524	0.328	322	378	0.18	0.38	0.15	11.28	3.2	34
150	0.203	0.426	0.268	355	425	0.18	0.36	0.17	14.1	5	33.8
185	0.164	0.339	0.213	400	485	0.18	0.36	0.18	17.39	5	34.1
240	0.125	0.258	0.16	461	572	0.17	0.34	0.2	22.56	5	34.6
300	0.1	0.207	0.132	516	649	0.17	0.33	0.22	28.2	5	35.1
400	0.0778	0.161	0.103	572	737	0.16	0.32	0.24	37.6	7.1	33.7
500	0.0605	0.125	0.081	638	835	0.16	0.31	0.26	47	7.1	33
630	0.0469	0.0972	0.64	860	1080	0.16	0.29	0.29	59.22	7.1	47.3

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)